

STATE OF ALASKA
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GEOCHEMICAL ANALYSIS OF STREAM-SEDIMENT
SAMPLES FROM PART OF THE SURVEY PASS A-2
QUADRANGLE, ALASKA
by
R.E. Garland, G.R. Eakins, and T.C. Tribble



INTRODUCTION

During 1971, stream-sediment samples were collected in the Survey Pass A-2 quadrangle for geochemical analysis. The samples were collected by G.L. Kline, W.S. Roberts, and J.M. Zdepski. Atomic absorption and emission spectrographic analyses were performed by T.C. Tribble, Minerals Analysis and Research Laboratory.

Stream-sediment samples were taken to include the finer fractions of sand and silt in the active parts of the streams and small tributaries. Every effort was made to take samples from areas where the results would not be obscured by the presence of large amounts of glacially derived material, which is common throughout much of the area. Organic material was excluded where possible.

KEY TO DATA SHEETS

1. The samples have been arranged into three classifications: stream-sediment, rock, and soil samples.
2. Semiquantitative emission spectrographic values are reported in parts per million (ppm) except values for iron (Fe), magnesium (Mg), and calcium (Ca), which are reported in percent (%). Titanium (Ti) is reported in parts per million except that values in excess of 10,000 ppm are reported in percent.

The data is reported as geometric mid-points (1.0, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1,etc.) of geometric intervals having limits (1.2, 0.83, 0.56, 0.38, 0.26, 0.18, 0.12,etc.). For example, a reported value of 1.0 is between the limits 0.83 and 1.2.

Under the columns Atomic Absorption Spectrophotometry and Semiquantitative Emission Spectrography, NA means not analyzed, and L means not detected at the specified limit of detection.

Backgrounds and thresholds are computed using standard techniques as discussed in Lepeltier, Claude, 1969, A simplified treatment of geochemical data by graphical representation: Econ. Geol., v. 64, no. 5, p. 538-550.

3. Abbreviations of rock types in sample vicinity, including bedrock and float:

GNST - greenstone
MARB - marble
SCH - schist